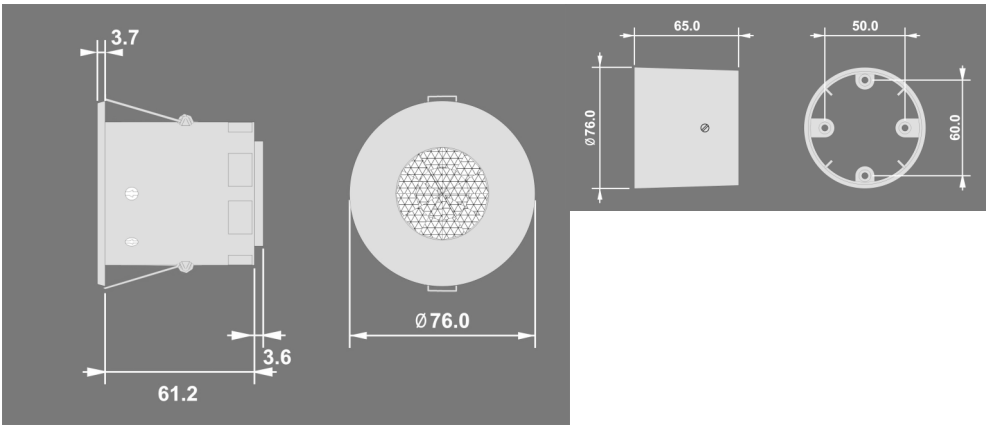
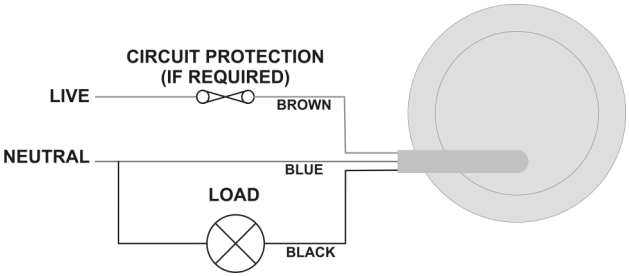
EBDSPIR-L3

Ceiling Presence Detector





Overview

The EBDSPIR series of presence detector switches are designed to provide automatic control of lighting, heating or ventilation loads. They detect movement using a PIR sensor and turn the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

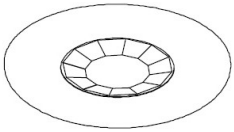
An adjustable internal light sensor provides additional energy saving in lighting applications. When an area is occupied lighting is only switched on when the level of natural light is below a preset level.

When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.

This product is supplied complete with a 3m lead.

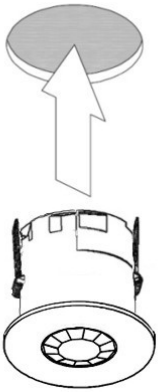
FLUSH FIXING

Warning - be careful bending springs when mounting unit.



1

Hole Ø64mm



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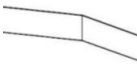
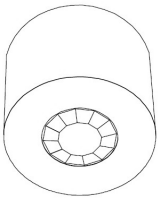
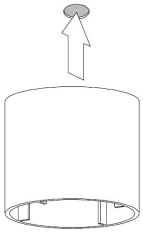


SURFACE FIXING



1

50mm or 60mm fixing centres



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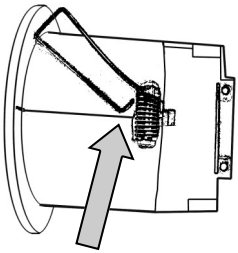
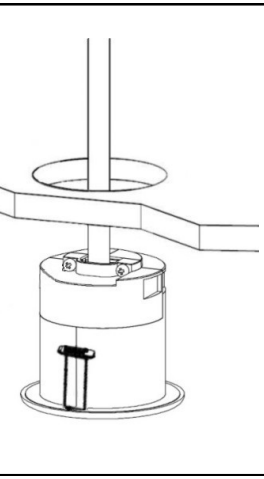


Pull out spring tab and rotate spring arm as shown

Installation

- The detector should be sited so that the occupants of the room fall inside the detection pattern shown overleaf, at a recommended height of 2.8m on the ceiling. Note that the lower the sensor is installed the smaller the detection range will be, subject to the parameters shown on the diagram.
- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.
- Wire the product using the connector using the diagram on the front page.
- Mount using one of the two options above.
- To switch from more than one position simply wire two or more units in parallel.
- Set the LUX level to maximum ar
- Power the unit up—the load shou
- Vacate the room or remain very s (should take no more than 2 minu
- Check that the load switches on
- To set the final LUX level wait un enough that lighting is required. S clockwise (at minimum), very slo the lights come on. Note that whe the lights will **always** come on wi
- Set the time required.



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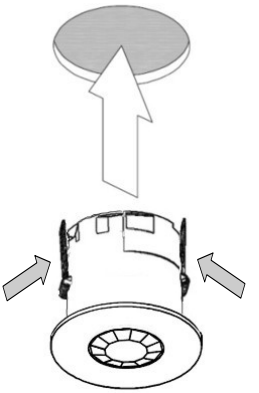

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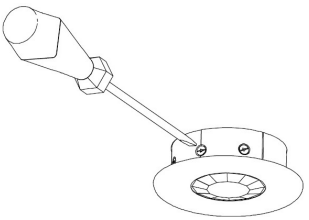

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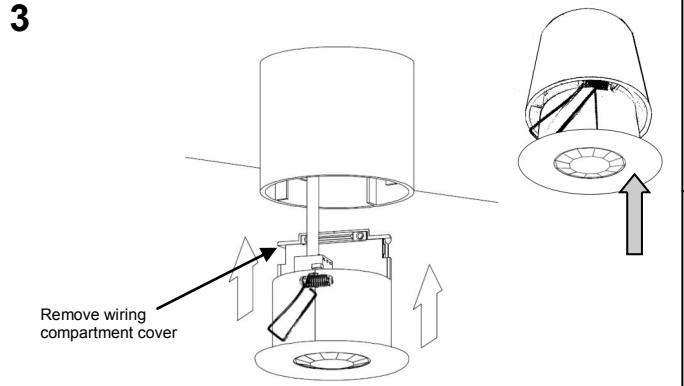

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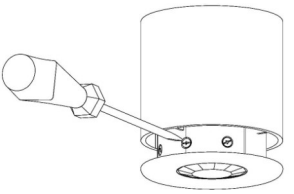

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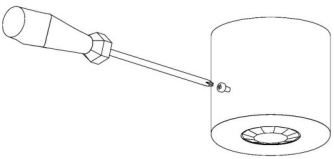


nd the time to minimum.

uld come on immediately.

still and wait for the load to switch off
utes).

when movement is detected.

til the level of natural daylight is just
Starting with the LUX control fully
wly turn the control anti-clockwise until
en the LUX control is at maximum then
th occupancy.

Fault Finding

LOAD DOES NOT COME ON

Check to see if the live supply to the circuit is good. Strap across the *L* and *LIVE OUT* terminal to turn the load on.

If the supply and wiring are good, check the LUX level setting. Increase the LUX level setting to allow the controller to turn on at higher ambient natural light level.

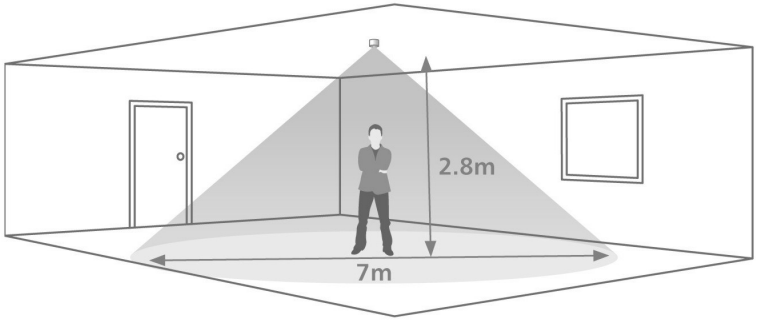
If the detection range is smaller than expected, check the diagram above. Rotating the sensor slightly may improve the range.

LIGHTS DO NOT GO OFF

Ensure that the area is left unoccupied for longer than the selected timer setting.

Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

Detection Pattern



Area of high sensitivity — Area of lower sensitivity

Specification

LOAD

8 Amp resistive and incandescent lighting
6 Amp fluorescent lighting
3 Amp compact fluorescent lighting
3 Amp low energy lighting
3 Amp low voltage lighting (switch primary of transformer)
Fluorescent lighting (max 6 fittings recommended)
For fluorescent lighting total power factor correction capacitance must not exceed 40µF.
3 Amp fans and ventilation equipment
Switch SON lighting loads via a contactor

SUPPLY VOLTAGE	220-240 Volts AC 50 Hz
TIME OUT PERIOD	Adjustable 10s to 30m
LIGHT LEVEL	Light to dark
LEAD	1.0 mm^2 LSF
MATERIAL	Flame retardant ABS
TYPE	Class 2
TEMPERATURE	-10°C to 35°C
CONFORMITY	EMC-89/336/EEC LVD-73/23/EEC

CE

Part Numbers

EBDSPIR-L3	Ceiling mounted presence detector c/w 3m lead
DBB	Surface mounting back box

IMPORTANT NOTICE!
This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.

FM 45789 EMS 534520

ESTA energy services and technology association

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Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.